

# PDR RID Report

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Document CSS Programming Guidelines

RID ID PDR 519

Review Wrap-up

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Priority 1

Section

Page

Figure Table

Slide MA-16

Category Name ECS System-Level

Actionee HAIS

Sub Category

Subject ECS Software Development (Plan, Environment, Standards, etc.)

## Description of Problem or Suggestion:

There is no single (set of) Documents which describe, in detail, the overall ECS Project software development guidelines. The current software development plan does not contain a sufficient level of detail.

## Originator's Recommendation

Create a software development plan and guidelines which detail how (standards, environment, procedures, configuration control, etc.) all segments of ECS Project will develop software and "glue-together" COTS software.

GSFC Response by:

GSFC Response Date

HAIS Response by: E. Lerner

HAIS Schedule

HAIS R. E. Bowers

HAIS Response Date 8/3/95

The level of detail in the ECS Software Development Plan (SDP) was mutually agreed to by the GSFC Engineering organization and the ECS project based on review of the preliminary version released in November, 1993. During a review of the preliminary release comments on December 9, 1993, it was decided to limit the SDP to a description of the framework for software development including a description of the development approach and associated activities (CASE environment, metrics, inspections, training, software quality assurance, software configuration management, etc.). The descriptions in the SDP were intentionally written at a summary level and the details were allocated to ECS Project Instructions (PIs), and in some cases, other deliverables (Performance Assurance Implementation Plan, Configuration Management Plan, Segment/Element Development Plans).

This approach was selected for several reasons: 1) the SDP itself would not become an overwhelming document and could serve as an overview to the many facets of software development on ECS, 2) GSFC could participate in the control of the development process through the level 2 review and document change notice (DCN) process while the details of specific processes (e.g. checklist details for the inspection process) would be internally controlled in Project Instructions, 3) maintenance of the SDP itself would be minimized, and 4) details of software development could be specified in more of a "just in time" or evolutionary fashion by developing appropriate PIs in the development phase just prior to when they are required.

The attached table lists the PI number, the name and the status of the PIs referenced by the SDP.

These PIs have been bundled together as Technical Data (Technical Data # 410-TD-002-001), and they can be accessed on the EDHS Home Page on World Wide Web (URL : <http://edhs1.gsfc.nasa.gov/> ) by the following steps.

1. Click on "Quick Search on Documents".
2. Enter Search Keyword :  
410
3. Click on "ECS Project Instructions related to the Software Development Plan".
4. Click on desired PI.

Status Closed

Date Closed 8/11/95

Sponsor Schroeder

\*\*\*\*\* Attachment if any \*\*\*\*\*